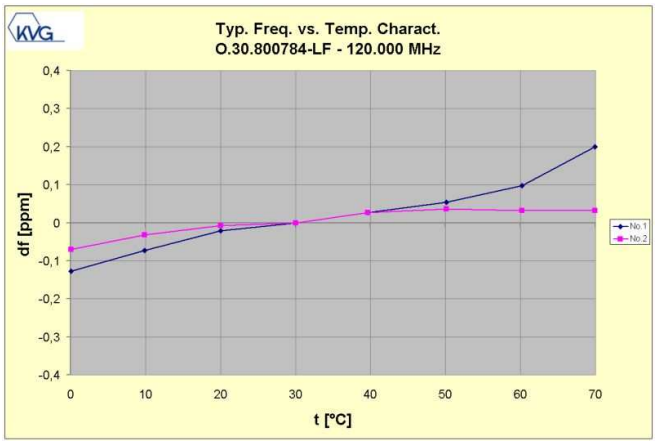
ROHS-Compliant Product

NWO.30.800784-LF

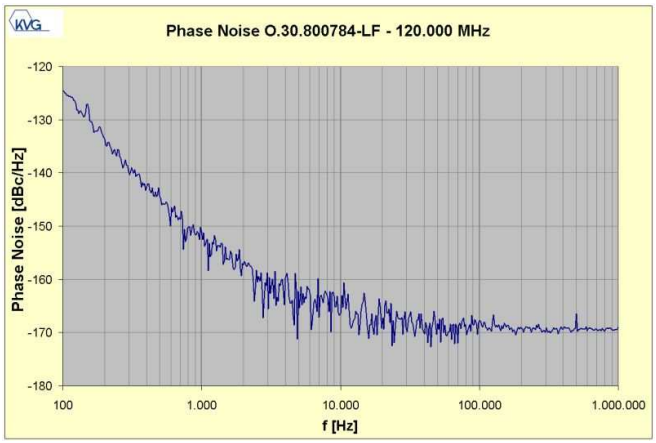
Description:

O.30.800784-LF is a 120.000 MHz high performance 'Oven Controlled Crystal Oscillator' (OCXO) offering exceptional low phase noise and tight frequency stability.
The part comes in a robust but still small hermetically sealed CO8 metal can package what makes it also suitable for humid environmental conditions.



FEATURES:

- Small CO-8 package
- Fast Warm-up Time
- Low Power Consumption
- Tight Frequency Stability
- Excellent Long-Term Stability
- Very Low Phase Noise
- El. Frequency Tuning Input
- Reference Voltage Output
- RoHS-Compliant (lead-free)



APPLICATIONS:

- Instrument Reference
- Microwave Communication Systems
- Clock Reference for MWave Signal Source
- Test & Measurement Systems
- Radar Systems

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1. Specification	
Nominal Frequency F_N:	120.000 MHz
Initial frequency tolerance: (T_A = +25 ℃, after power on for 30 min):	$\leq \pm 2 \times 10^{-7}$
Frequency stability in the temperature range -20 ℃ to +70 ℃: vs. supply voltage changes $V_S \pm 5\%$: vs. load changes 50 Ohm ± 5%:	 $\leq \pm 2 \times 10^{-7}$ $\leq \pm 1 \times 10^{-8}$ $\leq \pm 2 \times 10^{-9}$
Aging (after 30 days of continuous operation): per day: per year: 15 years:	 $\leq \pm 3 \times 10^{-9}$ $\leq \pm 3 \times 10^{-7}$ $\leq \pm$ 1.5 ppm
Frequency tuning range:	$\geq \pm$ 2 ppm
Tuning voltage range V_C:	0 to 10 V
Reference voltage output V_{REF}:	+10 V ± 5%
Supply voltage V_S:	+12.0 V ± 5 %
Supply current I_S steady state @ +25 ℃: during warm-up:	 ≤ 150 mA ≤ 350 mA
Warm up time: (to $dF/F_0 < \pm 1 \times 10^{-7}$ referred to F_0 after 1 hour)	≤ 10 min
Output signal type: Initial output level: Output load impedance:	Sine wave ≥ 7 dBm 50 Ohm ± 5%
Harmonics:	≤ -25 dBc
Phase noise: 100 Hz: 1 kHz: 10 kHz: 100 kHz: 1 MHz:	Typival values: ≤ -125 dBc / Hz ≤ -150 dBc / Hz ≤ -160 dBc / Hz ≤ -168 dBc / Hz ≤ -170 dBc / Hz
Temperature ranges Operating: Storage:	 -20 ℃ ... +70 ℃ -40 ℃ ... +85 ℃
2. Environmental conditions	
According to KVG Product Qualification Procedure AA-QM-200	
3. Marking	
Manufacturer's name, date code (week/year); Specification; Nominal frequency	

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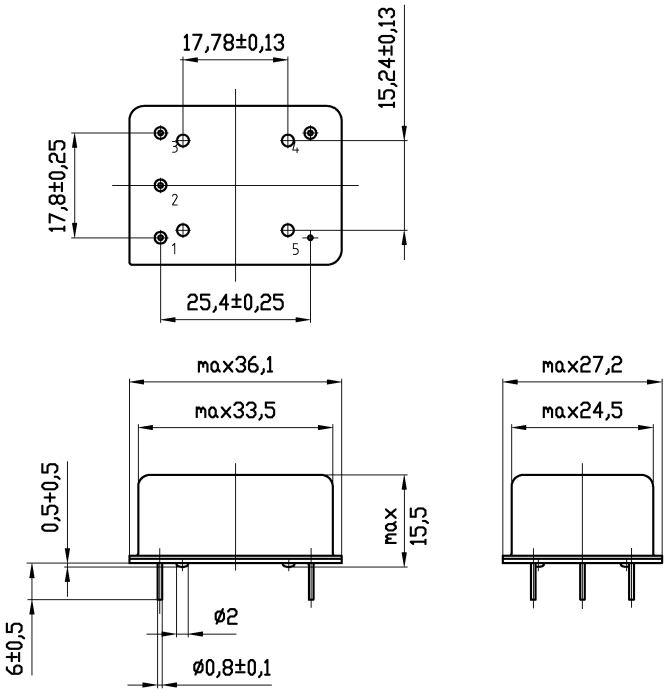
4. Case

Case style: BF9-IS-S-15.5



max. height incl. stand-offs: **15.5 mm**

1.Pin configuration

1. Control voltage in V_C
2. Reference voltage V_{REF}
3. Supply voltage V_S
4. RF output
5. Ground, case

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